

## A037 LPSC

### Pd-catalyzed cross coupling of phthalic anhydride and organotrifluoroborates for the direct arylation reactions

#### Abstract

The transition-metal catalyzed RCOCl activation and functionalization has opened a new synthetic strategy. Inserting direct RCO group approach can reduce operating steps and emphasize on atom economy in making the desired molecular skeleton in organic synthesis. The main project we are focusing on is, the cross-coupling of organotrifluoroborates such as, potassium allyltrifluoroborate, potassium styryltrifluoroborates, and phthalic anhydride with a prediction of making diallylated product product. The resulting cross-coupling product is expected to cyclicize into ring closure metathesis. The new reaction hypothesis and its progress will be discussed.

